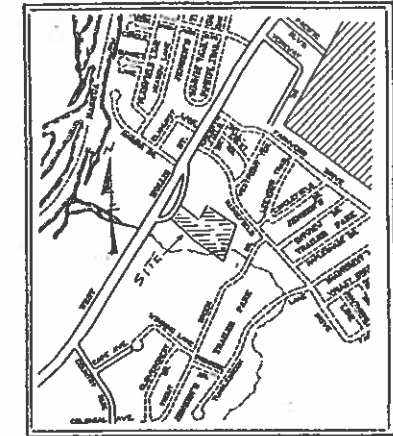


LEGEND

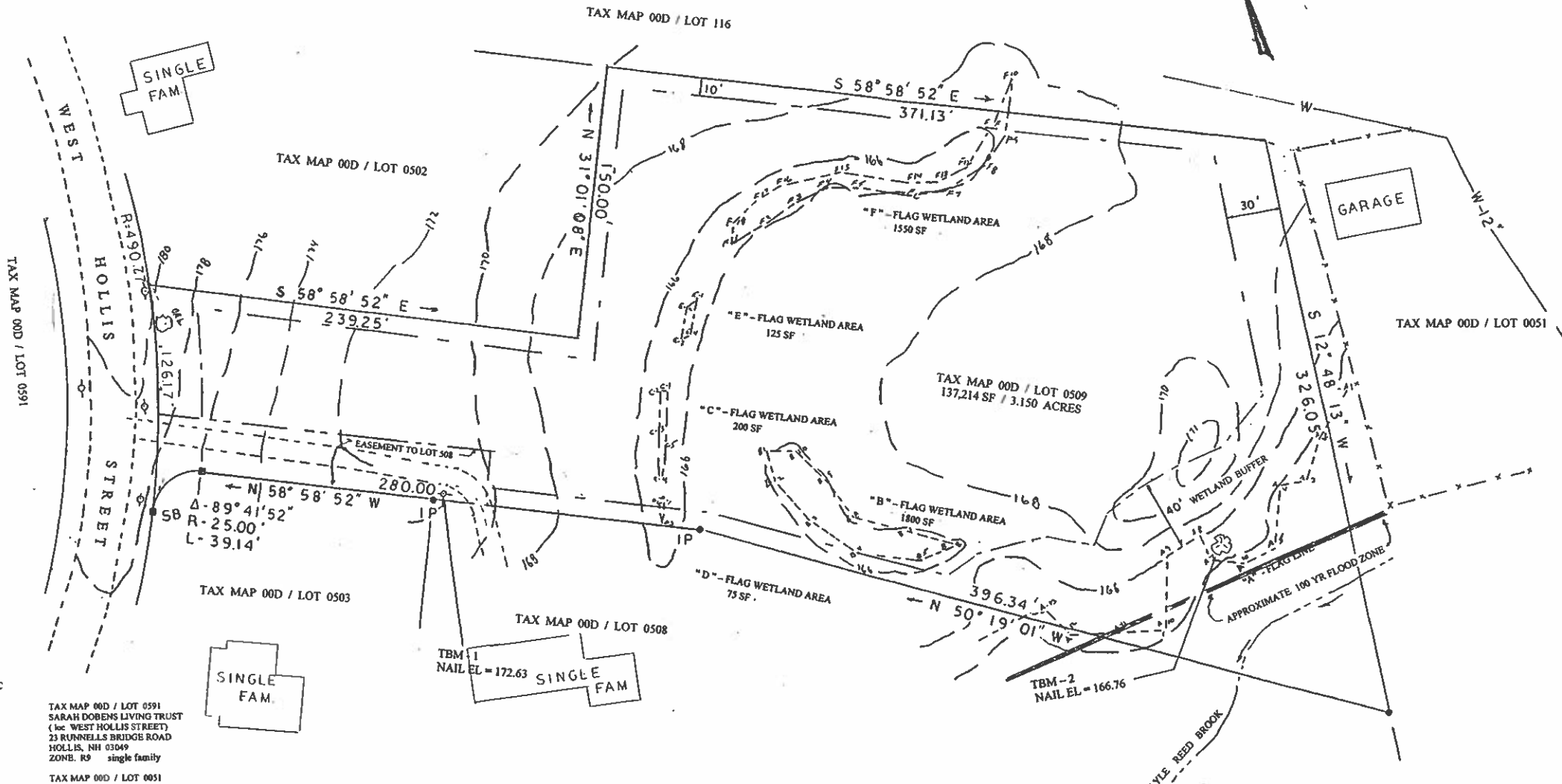
- ☐ - STONE BOUND FOUND
- - IRON PIPE/ROD FOUND
- - UTILITY POLE
- - - - - EDGE OF PAVEMENT
- - - - - EDGE OF LIMITED COMMON AREA
- W - PROPOSED WATERLINE
- x - x - x - SILT FENCING
- - - - - APPROXIMATE 100 YR FLOOD ZONE



LOCATION PLAN 1:1000

PLAN REFERENCE

SUBDIVISION / LOT LINE RELOCATION PLAN
 LOTS 502 & 504, MAP 'D' 974 & 976 WEST HOLLIS
 STREET, NASHUA, NH FOR PAUL & PATRICIA MOREY
 SCALE 1" = 80' BY HIS HAYNER/WANSON, INC OF
 NASHUA DATED SEPTEMBER 10, 1997 AND RECORDED
 PLAN NO. 29000.



APPROVED
 NASHUA CITY PLANNING BOARD

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

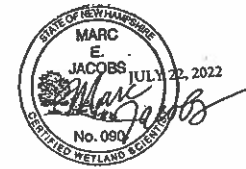
REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP.
1	2-10-23	additions per review	MJG	
2	3-17-23	additions	MJG	

ABUTTERS

- TAX MAP 00D / LOT 509
 G. HURD & SON CONSTRUCTION, LLC
 (loc. 976 WEST HOLLIS STREET)
 13 MERRIMACK STREET
 HUDSON, NH 03051
 ZONE: R9
- TAX MAP 00D / LOT 508
 LOPEZ-VILLASENOR
 SERGIO ARTURO
 980 WEST HOLLIS STREET
 NASHUA, NH 03062
 ZONE: R9 single family
- TAX MAP 00D / LOT 503
 RANDY J. SHEEHAN
 1000 WEST HOLLIS STREET
 NASHUA, NH 03062
 ZONE: R9 single family
- TAX MAP 00D / LOT 502
 PAUL & PATRICIA MOREY TRUST
 DONALD HAMM
 (loc. 974 WEST HOLLIS STREET)
 164 HAYDEN ROAD
 HOLLIS, NH 03049
 ZONE: R9 single family
- TAX MAP 00D / LOT 507
 THE NASHUA PRESBYTERIAN CHURCH, INC
 1010 WEST HOLLIS STREET
 NASHUA, NH 03062
 ZONE: R30 Church
- TAX MAP 00D / LOT 116
 HOGAN-BRISTOL, FAM REV TRUST
 MARJE HOGAN-BRISTOL, TRUSTEE
 972 WEST HOLLIS STREET
 NASHUA, NH 03062
 ZONE: R9 single family
- TAX MAP 00D / LOT 0591
 SARAH DOBENS LIVING TRUST
 (loc. WEST HOLLIS STREET)
 23 RUMELLS BRIDGE ROAD
 HOLLIS, NH 03049
 ZONE: R9 single family
- TAX MAP 00D / LOT 0501
 SUN COMMUNITIES LP
 c/o TENSEN'S @ RIVER PINES
 0 RIVER PINES BLVD
 NASHUA, NH 03062 M Home Park
- TAX MAP 00D / LOT 318
 RONALD & DEBRA BELHUNEUR
 970 WEST HOLLIS STREET
 NASHUA, NH 03062

WITHIN 200 FT

- ATTORNEY: COLIN JEAN
 64 MCKEAN STREET
 NASHUA, NH 03069
- ENGINEER: M.J. GRAINGER ENGINEERING, INC
 MICHAEL J. GRAINGER, PE, LLS
 220 DERRY ROAD
 HUDSON, NH 03051
- ENGINEER: RJB ENGINEERING, LLC
 R. JEFFREY BURD, PE
 2 GLENDALE ROAD
 CONCORD, NH 03301



Jurisdictional wetlands were delineated on July 13, 2017 by Marc Jacobs, Certified Wetland Scientist number 090, according to the standards of the US Army Corps of Engineers - Wetlands Delineation Manual; the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region; the Code of Administrative Rules, NH Department of Environmental Services - Wetlands Bureau - Env Wt 100-900 and Chapter 190 - Article Xd, §190-264 of the City of Nashua Land Use Code. Soils were evaluated utilizing the Field Indicators for Identifying Hydric Soils in New England, Version 4, May 2017 and the Field Indicators of Hydric Soils in the United States, Version 8, 2016. The indicator status of vegetation as hydrophytic was determined according to the U.S. Army Corps of Engineers - Northcentral and Northeast 2016 Regional Wetland Plant List. Copies of site plans which have been reviewed by the wetland scientist are individually stamped, signed and dated. This note has been customized for this project.

OWNER: G. HURD & SON CONSTRUCTION, LLC
 13 MERRIMACK STREET
 HUDSON, NH 03051

THE UNDERSIGNED DOES HEREBY AGREE TO PERFORM ALL OF THE IMPROVEMENTS AS SHOWN ON THIS PLAN AND AS CONDITIONED OR STIPULATED BY THE NASHUA CITY PLANNING BOARD. ALL REQUIRED SITE IMPROVEMENTS MUST BE COMPLETED OR GUARANTEED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

I CERTIFY THAT THIS PLAN WAS PREPARED FROM THE BOUNDARY INFORMATION SHOWN ON THE PLANS REFERENCED AND A FIELD SURVEY MADE ON THE GROUND DURING SEPTEMBER, OCTOBER NOVEMBER & DECEMBER 2018, IN ACCORDANCE WITH CITY OF NASHUA REGULATIONS.



MICHAEL J. GRAINGER, LLS

TAX MAP 00D / LOT 0509
 EXISTING CONDITIONS PLAN
 976 WEST HOLLIS STREET
 NASHUA, NH

PREPARED FOR: TUMPNEY, HURD, CLEGG, LLC
 39 TRIGATE ROAD
 HUDSON, NH 03051
 603-718-2932

DECEMBER 7, 2022 SCALE: 1" = 40'

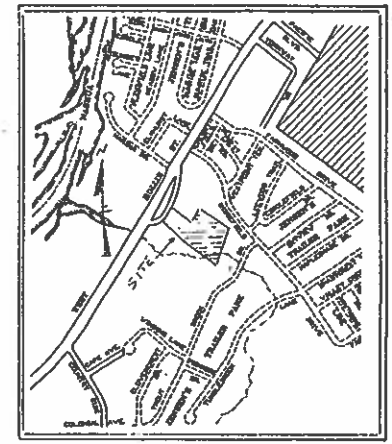
M. J. GRAINGER ENGINEERING, INC.
 PROFESSIONAL ENGINEERS - SURVEYORS - PLANNERS
 220 DERRY ROAD HUDSON, NH 03051 (603) 882-4359

10. PRESENT USE OF THIS PARCEL - VACANT.
11. THERE ARE WETLANDS ON THIS PARCEL AS SHOWN.
12. A DRIVEWAY PLAN SHALL BE APPROVED BY THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
13. IT SHALL BE UNLAWFUL TO MODIFY, CHANGE, OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN IN ANY WAY WHATSOEVER, OR CONVERT OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN, OR CHANGE THE ABOVE USE INDICATED ON THIS PLAN WITHOUT RECEIVING APPROVAL FROM THE CITY.
14. FUTURE BUILDING CONSTRUCTION SHALL INCORPORATE FOUNDATION DRAINAGE SYSTEMS EXCEPT WHERE AN INVESTIGATION ESTABLISHES THAT SPECIFIC BUILDING SITES ARE LOCATED IN WELL DRAINED SOILS AND THAT SUCH SYSTEMS ARE NOT REQUIRED.
15. ALL STREET RESTORATION SHALL BE IN ACCORDANCE WITH NRO SECTION 285-13. ALL WORK WITHIN THE R.O.W. SHALL BE COMPLETED TO THE SATISFACTION OF THE PUBLIC WORKS DEPARTMENT. (NO NEW R.O.W. PROPOSED)
16. NEW STREET ADDRESSES WILL BE ASSIGNED BY THE NASHUA FIRE DEPARTMENT.

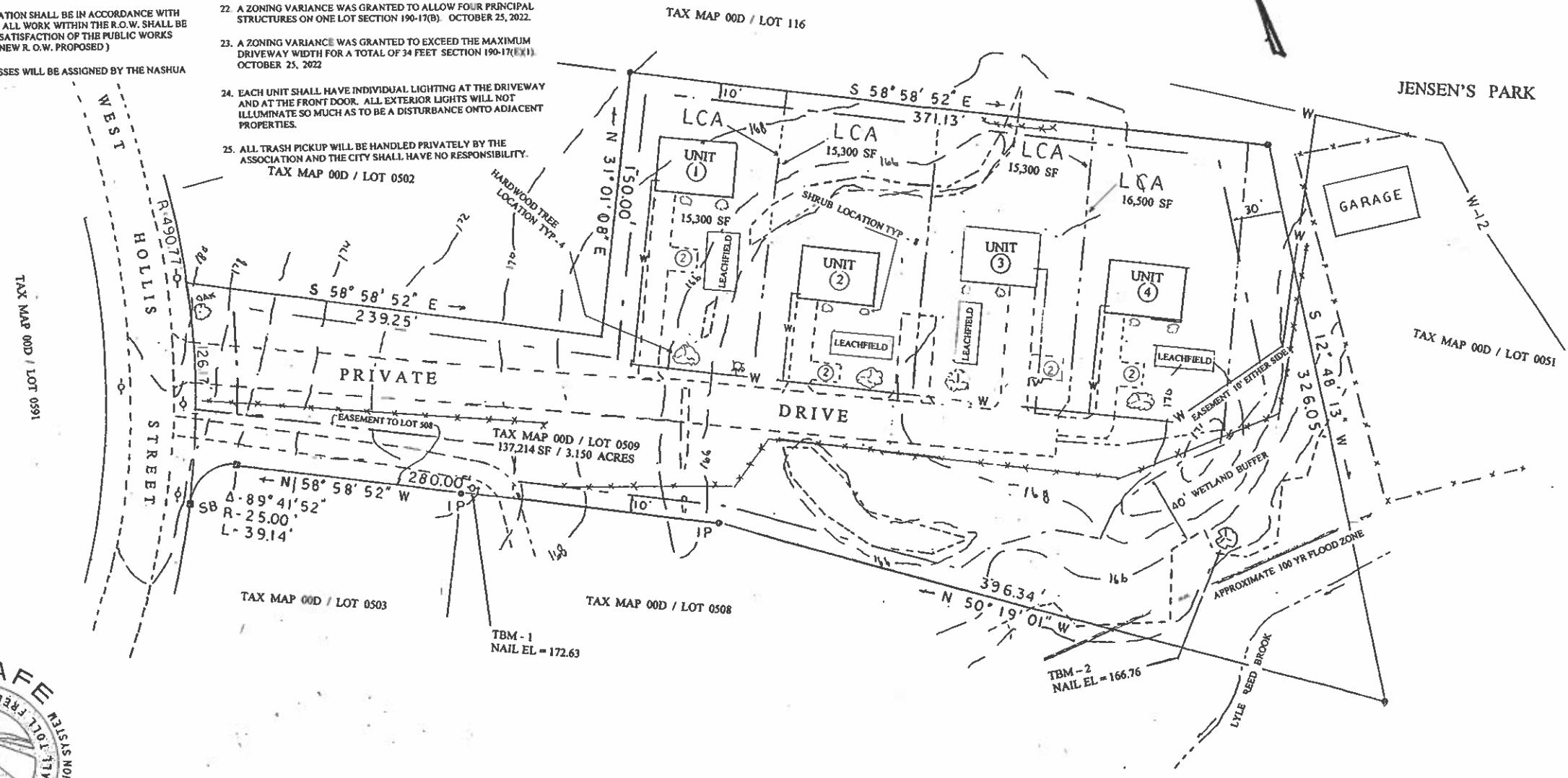
17. PRIOR TO ANY WORK BEING CONDUCTED A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE PLANNING STAFF AND OTHER CITY DEPARTMENTS AS NECESSARY TO REVIEW THE WORK PROPOSED AND ALL BONDING SHALL BE IN PLACE.
18. ALL PIPE WORK WITHIN CITY'S R.O.W. SHALL BE PERFORMED BY A LICENSED CITY OF NASHUA DRAIN LAYER.
19. ALL PROPOSED BUILDINGS WILL HAVE FULL BASEMENTS.
20. PROPOSED DRIVEWAYS MEET SITE DISTANCE REQUIREMENTS PER CITY ZONING ORDINANCE SEC. 190-208.
21. EROSION CONTROL MEASURES (SILT FENCING) SHALL BE INSTALLED ALONG THE DOWN GRADIENT SLOPES PRIOR TO THE START OF ANY WORK AND SHALL BE MAINTAINED BY THE DEVELOPER UNTIL VEGETATION HAS BEEN ESTABLISHED.
22. A ZONING VARIANCE WAS GRANTED TO ALLOW FOUR PRINCIPAL STRUCTURES ON ONE LOT SECTION 190-17(B) OCTOBER 25, 2022.
23. A ZONING VARIANCE WAS GRANTED TO EXCEED THE MAXIMUM DRIVEWAY WIDTH FOR A TOTAL OF 34 FEET SECTION 190-17(E)(1) OCTOBER 25, 2022.
24. EACH UNIT SHALL HAVE INDIVIDUAL LIGHTING AT THE DRIVEWAY AND AT THE FRONT DOOR. ALL EXTERIOR LIGHTS WILL NOT ILLUMINATE SO MUCH AS TO BE A DISTURBANCE ONTO ADJACENT PROPERTIES.
25. ALL TRASH PICKUP WILL BE HANDLED PRIVATELY BY THE ASSOCIATION AND THE CITY SHALL HAVE NO RESPONSIBILITY.

26. UTILITY INCLUDING ALL ELECTRIC, TELEPHONE, CABLE TELEVISION, AND OTHER COMMUNICATION LINES, BOTH MAIN AND SERVICE CONNECTIONS, SERVICING NEW DEVELOPMENTS SHALL BE PROVIDED BY UNDERGROUND WIRING WITHIN EASEMENTS OR DEDICATED PUBLIC RIGHT-OF-WAY, INSTALLED IN ACCORDANCE WITH THE BOARD PUBLIC WORKS SPECIFICATIONS.
27. ALL SEPTIC SYSTEMS ARE TO BE APPROVED BY THE CITY OF NASHUA HEALTH DEPARTMENT.
28. NO WELLS ARE PERMITTED IN THIS ZONE AS THEY ARE DESIGNATED A PROHIBITED USE IN THIS FOUR HILLS OVERLAY ZONE.

PLAN REFERENCE
 SUBDIVISION / LOT LINE RELOCATION PLAN
 LOTS 502 & 504, MAP 'D' 974 & 976 WEST HOLLIS STREET, NASHUA, NH FOR PAUL & PATRICIA MOREY SCALE 1" = 40' BY HIS HAYNER/SWANSON, INC OF NASHUA DATED SEPTEMBER 10, 1997 AND RECORDED PLAN NO. 29000.



- LOCATION PLAN** 1:1000
- 1 - OWNER OF PARCEL IS G. HURD & SON CONSTRUCTION, LLC 13 MERRIMACK STREET HUDSON, NH 603-718-2932
 - 2 - DEED REFERENCE IS HCRD BOOK 8966 PAGE 1013.
 - 3 - THE PURPOSE OF THIS PLAN IS TO DEPICT A 4 UNIT CONDOMINIUM SITE PLAN ON TAX MAP LOT D-509, SHOWING FOUR SINGLE FAMILY HOMES.
 - 4 - THE TOTAL AREA OF THE PARCEL IS 3.15 ACRES.
 - 5 - LOT NUMBERS REFER TO THE CITY OF NASHUA ASSESSOR MAP D.
 - 6 - ZONING FOR THIS PARCEL IS URBAN RESIDENCE DISTRICT R-9. R-9 ZONE: CONDOMINIUM REQUIRED PROPOSED
 MIN LOT AREA 9,000 SF 137,214 SF
 MIN LOT WIDTH 90 FT 100 FT
 MIN LOT FRONTAGE 75 FT 120 FT
 MIN LOT DEPTH 90 FT 600 FT
 MIN FRONT SETBACK 20 FT 250 FT
 MIN SIDE SETBACK 10 FT 35 FT
 MIN REAR SETBACK 30 FT 65 FT
 MAX BUILDING HEIGHT 35 FT 35 FT
 MAX STORIES 2 2
 - 7 - THE SITE WILL BE SERVICED BY PENNICHUCK WATER AND INDIVIDUAL SEPTIC SYSTEMS APPROVED BY THE HEALTH DEPT.
 - 8 - SOIL TYPE: H4a - HINKLEY LOAMY SAND
 - 9 - A PORTION OF THIS PARCEL IS LOCATED IN A FLOOD HAZARD AREA AS DETERMINED FROM THE FLOOD STUDY, MAP 53011C0632D DATED: SEPTEMBER 9, 2009.



APPROVED
 NASHUA CITY PLANNING BOARD

CHAIRMAN _____ DATE _____
 SECRETARY _____ DATE _____

REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP.
1	2-10-22	checklist	MJG	
2	3-17	drive fire dept, notes	MJG	

OWNER: G. HURD & SON CONSTRUCTION, LLC
 13 MERRIMACK STREET
 HUDSON, NH 03051
 603-718-2932

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I CERTIFY THAT THIS PLAN WAS PREPARED FROM THE BOUNDARY INFORMATION REFERENCED ABOVE AND A FIELD SURVEY MADE ON THE GROUND DURING 2017, 2018, HAVING AN ERROR OF CLOSURE BETTER THAN 1 IN 10,000, IN ACCORDANCE WITH THE CITY OF NASHUA REGULATIONS.
 MICHAEL J. GRAINGER, L.L.S.



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- LEGEND**
- - STONE BOUND FOUND
 - - IRON PIPE/ROD FOUND
 - - UTILITY POLE
 - - EDGE OF PAVEMENT
 - - EDGE OF LIMITED COMMON AREA
 - W - PROPOSED WATERLINE
 - - SILT FENCING
 - - APPROXIMATE 100 YR FLOOD ZONE
 - - PROPOSED PARKING SPACE
 - ⊗ - HYDRANT

TAX MAP 00D / LOT 0509
EROSION CONTROL PLAN
 976 WEST HOLLIS STREET
 NASHUA, NH

PREPARED FOR: TUMPNEY, HURD, CLEGG, LLC
 39 TRIGATE ROAD
 HUDSON, NH 03051
 603-718-2932

DECEMBER 7, 2022 SCALE: 1" = 40'

M. J. GRAINGER ENGINEERING, INC.
 PROFESSIONAL ENGINEERS - SURVEYORS - PLANNERS
 220 DERRY ROAD HUDSON, NH 03051 (603) 882-4359

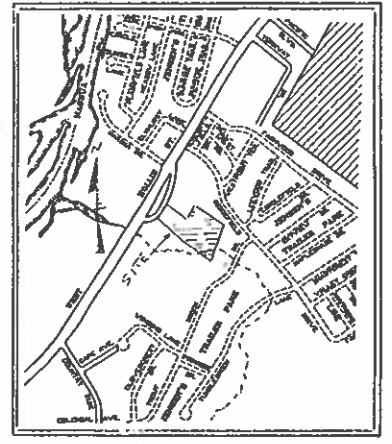
SHEET 4 OF 7 JN 17 - 108

10. PRESENT USE OF THIS PARCEL - VACANT.
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12. A DRIVEWAY PLAN SHALL BE APPROVED BY THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
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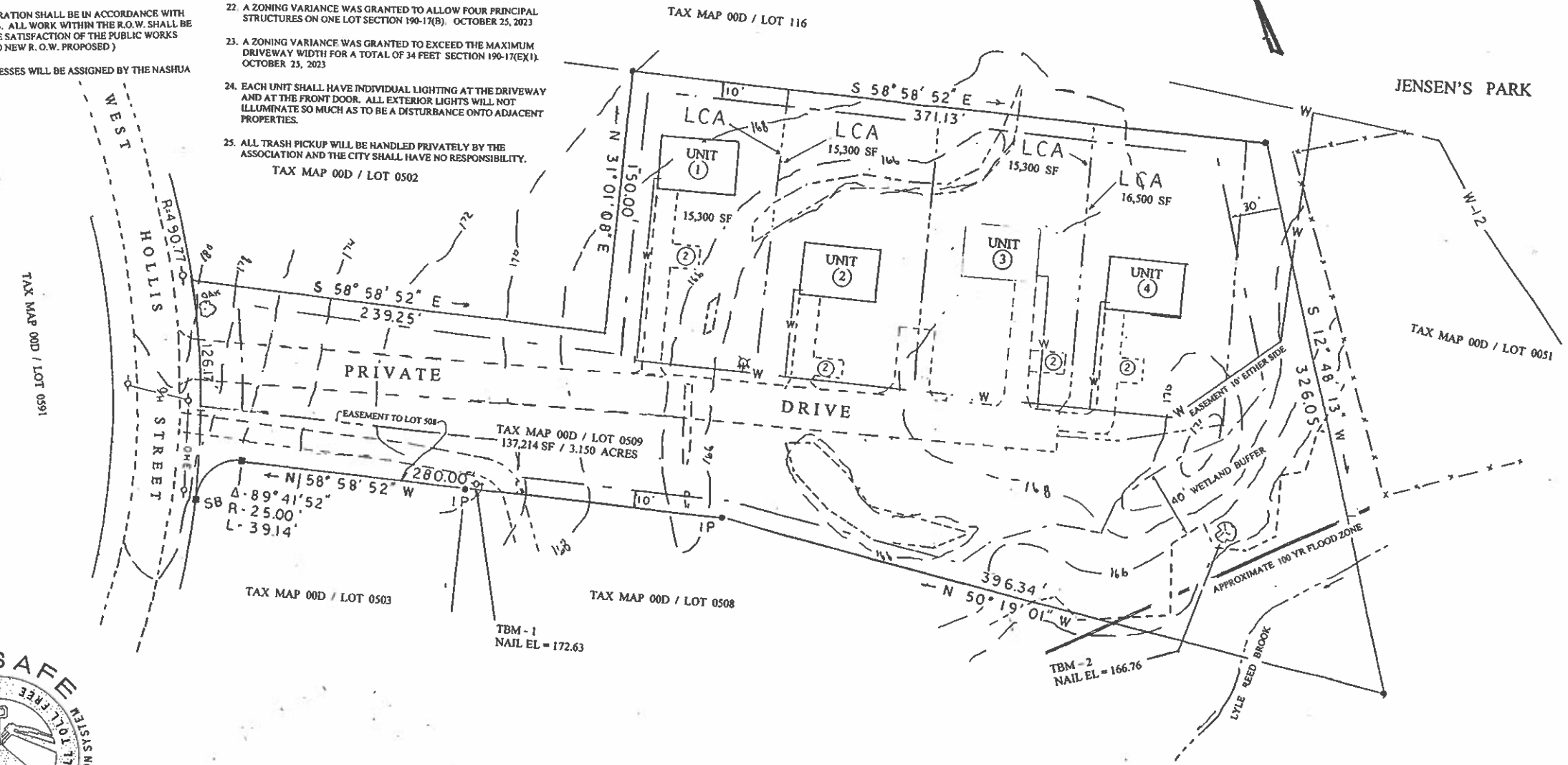
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PLAN REFERENCE
 SUBDIVISION / LOT LINE RELOCATION PLAN
 LOTS 502 & 504, MAP 'D' 974 & 976 WEST HOLLIS STREET, NASHUA, NH FOR PAUL & PATRICIA MOREY
 SCALE 1" = 80' BY HIS HAYNER/SWANSON, INC OF NASHUA DATED SEPTEMBER 10, 1997 AND RECORDED PLAN NO. 29000.



- 1 - OWNER OF PARCEL IS G. HURD & SON CONSTRUCTION, LLC 13 MERRIMACK STREET HUDSON, NH 03051 - 718 - 2932
- 2 - DEED REFERENCE IS HCRD BOOK 8966 PAGE 1013.
- 3 - THE PURPOSE OF THIS PLAN IS TO DEPICT A 4 UNIT CONDOMINIUM SITE PLAN ON TAX MAP LOT D-509, SHOWING FOUR SINGLE FAMILY HOMES.
- 4 - THE TOTAL AREA OF THE PARCEL IS 3.15 ACRES.
- 5 - LOT NUMBERS REFER TO THE CITY OF NASHUA ASSESSOR MAP D.
- 6 - ZONING FOR THIS PARCEL IS URBAN RESIDENCE DISTRICT R-9.

R-9 ZONE CONDOMINIUM	REQUIRED	PROPOSED
MIN LOT AREA	9,000 SF	137,214 SF
MIN LOT WIDTH	100 FT	100 FT
MIN LOT FRONTAGE	75 FT	120 FT
MIN LOT DEPTH	90 FT	600 FT
MIN FRONT SETBACK	20 FT	250 FT
MIN SIDE SETBACK	10 FT	35 FT
MIN REAR SETBACK	30 FT	65 FT
MAX BUILDING HEIGHT	35 FT	35 FT
MAX STORES	2.5	2
- 7 - THE SITE WILL BE SERVICED BY PENNICKUCK WATER AND INDIVIDUAL SEPTIC SYSTEMS APPROVED BY THE HEALTH DEPT
- 8 - SOIL TYPE H4a - HINKLEY LOAMY SAND
- 9 - A PORTION OF THIS PARCEL IS LOCATED IN A FLOOD HAZARD AREA AS DETERMINED FROM THE FLOOD STUDY, MAP 33011C0632D DATED SEPTEMBER 9, 2009.



- LEGEND**
- - STONE BOUND FOUND
 - - IRON PIPE/ROD FOUND
 - - UTILITY POLE
 - - - - - EDGE OF PAVEMENT
 - - - - - EDGE OF LIMITED COMMON AREA
 - W- - - - - PROPOSED WATERLINE
 - x---x---x--- SILT FENCING
 - - - - - APPROXIMATE 100 YR FLOOD ZONE
 - - PROPOSED PARKING SPACE
 - ⊗ - HYDRANT



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OWNER: G. HURD & SON CONSTRUCTION, LLC
 13 MERRIMACK STREET
 HUDSON, NH 03051
 603 - 718 - 2932

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I CERTIFY THAT THIS PLAN WAS PREPARED FROM THE BOUNDARY INFORMATION REFERENCED ABOVE AND A FIELD SURVEY MADE ON THE GROUND DURING 2017, 2018, HAVING AN ERROR OF CLOSURE BETTER THAN 1 IN 10,000, IN ACCORDANCE WITH THE CITY OF NASHUA REGULATIONS.
 MICHAEL J. GRAINGER, LLS

APPROVED
 NASHUA CITY PLANNING BOARD

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

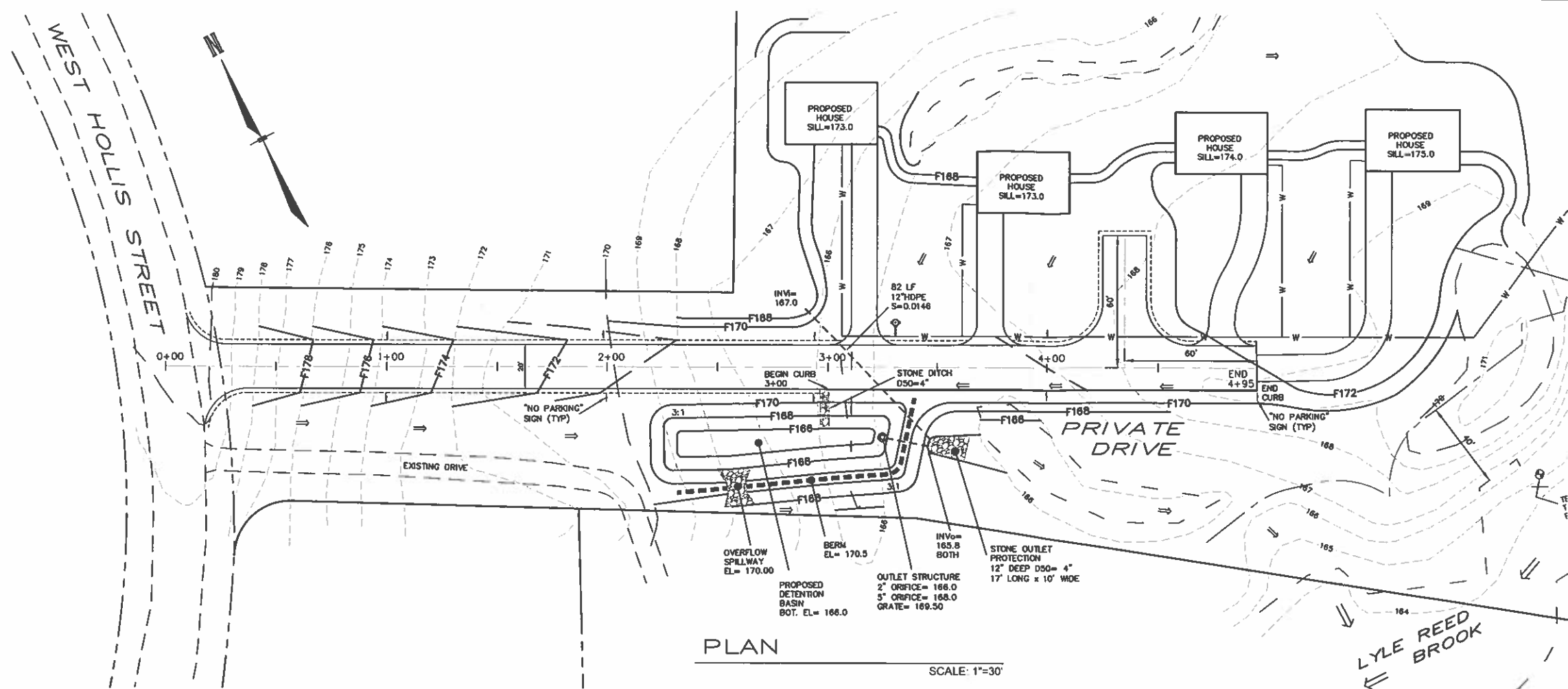
REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP.
1	2-10-23	checklist	MJC	
2	3-17-23	done - fire dept. notes	MJC	

TAX MAP 00D / LOT 0509
PROPOSED CONDOMINIUM SITE PLAN
 976 WEST HOLLIS STREET
 NASHUA, NH

PREPARED FOR: TUMPNEY, HURD, CLEGG, LLC
 39 TRIGATE ROAD
 HUDSON, NH 03051
 603 - 718 - 2932

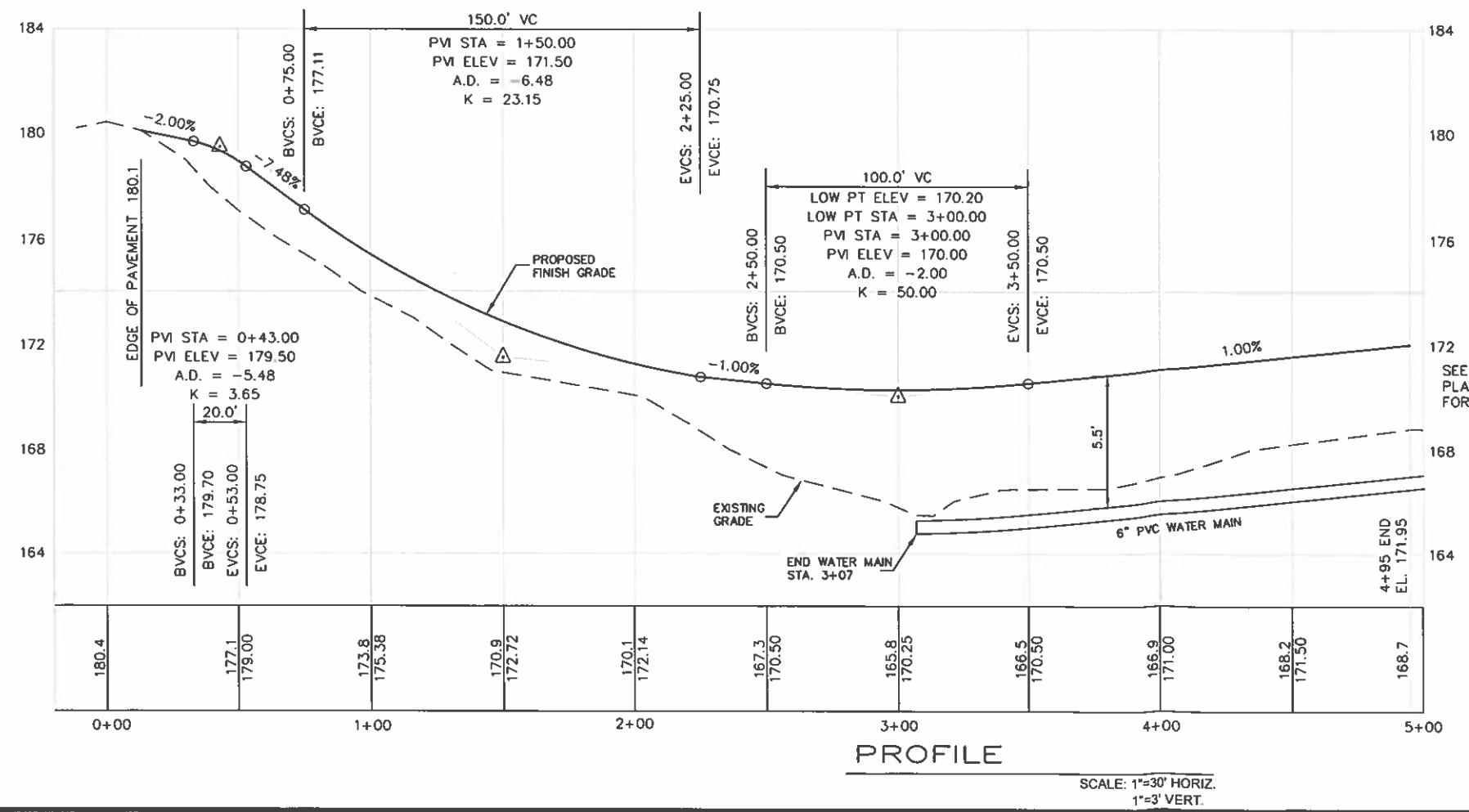
DECEMBER 7, 2022 SCALE: 1" = 40'

M. J. GRAINGER ENGINEERING, INC.
 PROFESSIONAL ENGINEERS - SURVEYORS - PLANNERS
 220 DERRY ROAD HUDSON, NH 03051 (603) 882-4359



PLAN
SCALE: 1"=30'

- Notes**
1. THE PURPOSE OF THIS PLAN IS TO SHOW CONSTRUCTION OF A NEW ROAD, UTILITIES, AND RELATED IMPROVEMENTS TO PROVIDE ACCESS TO 4 NEW SINGLE FAMILY RESIDENTIAL BUILDINGS.
 2. PROPERTY BOUNDARIES AND TOPOGRAPHY SHOWN HEREON FROM AN ON GROUND SURVEY PERFORMED BY M.J. GRAINGER ENGINEERING, INC.
 3. ALL WORK SHALL CONFORM TO THE LATEST CITY OF NASHUA REGULATIONS AND THE NHDOT STANDARD ROAD AND BRIDGE SPECIFICATIONS.
 4. CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HEREON ARE FROM REFERENCE PLANS OR FROM OBSERVATIONS MADE IN UTILITY STRUCTURES. THIS OFFICE DOES NOT GUARANTEE THE LOCATION AND ACCURACY OF THE UTILITY DATA. CONTRACTOR TO NOTIFY DIG SAFE 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
 5. THE TOWN MAY REQUIRE ADDITIONAL EROSION CONTROL DURING CONSTRUCTION AS DEEMED APPROPRIATE.
 6. THE TOTAL AREA OF DISTURBANCE FOR THE CONSTRUCTION OF THE NEW ROAD IS APPROXIMATELY 35,000 S.F. IT IS NOT REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE U.S.E.P.A. UNDER THE NPDES CONSTRUCTION GENERAL PERMIT OR PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS THE TOTAL DISTURBANCE IS UNDER ONE ACRE.
 7. STUMPS TO BE DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.



PROFILE
SCALE: 1"=30' HORIZ.
1"=3' VERT.



NO.	DESCRIPTION	DATE
1.	REVISE DETENTION BASIN ELEVATIONS	02/03/2023
2.	REVISE TURNAROUND, ADD WATER LINE, NO PARKING SIGNS	03/17/2023

PRIVATE DRIVE PLAN & PROFILE
MAP 00D, LOT 0509

976 WEST HOLLIS STREET
NASHUA, NEW HAMPSHIRE

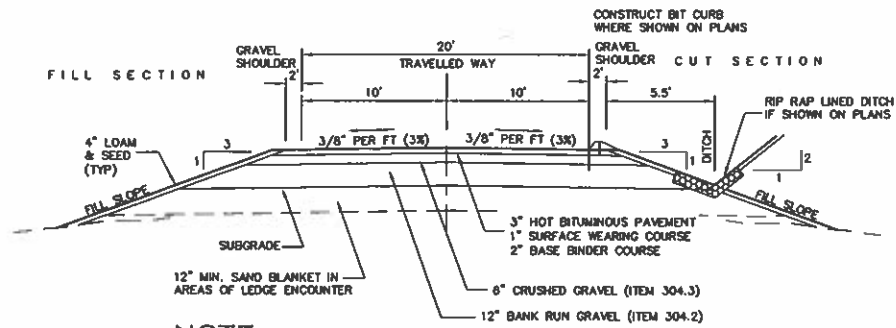
PREPARED FOR:
TUMPNEY, HURD, CLEGG, LLC
39 TRIGATE ROAD
HUDSON, NH 03051

JANUARY 26, 2023 SCALE: 1"=30'

ENGINEER:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

ENGINEER & SURVEYOR:
M.J. GRAINGER ENGINEERING, INC.
PROFESSIONAL ENGINEERS - SURVEYORS - PLANNERS
220 DERRY ROAD HUDSON, NH 03051 (603) 882-4359

SHEET: 5 of 7

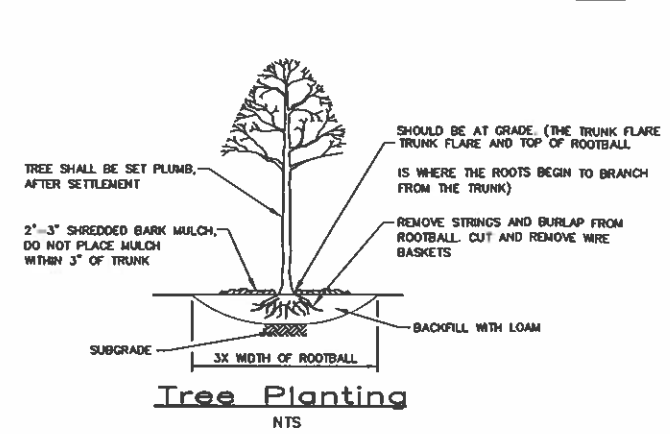


NOTE:

1. ALL ROADWAY MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST MHDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING SUBSEQUENT AMENDMENTS AND EDITIONS.
2. PROVIDE 4" (MIN) COMPACTED LOAM & SEED ON ALL SIDE SLOPES AND DRAINAGE SWALES UNLESS OTHERWISE NOTED.
3. ALL LEDGE SHALL BE REMOVED TO 12 INCHES BELOW SUBGRADE.
4. WHERE (F) GUARDRAIL IS USED, MINIMUM WIDTH OF SHOULDER SHALL BE 5'-0" WITH FACE OF GUARDRAIL AT 3'-0" FROM EDGE OF TRAVELED WAY.

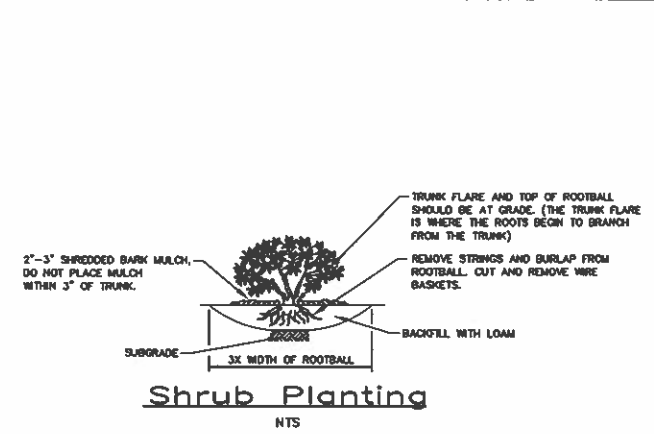
TYPICAL ROADWAY SECTION

NOT TO SCALE



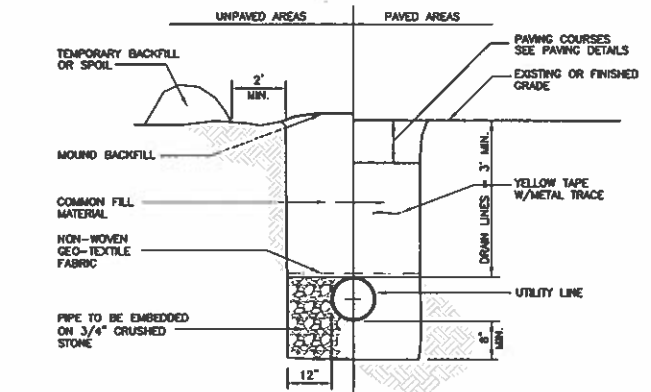
Tree Planting

NTS



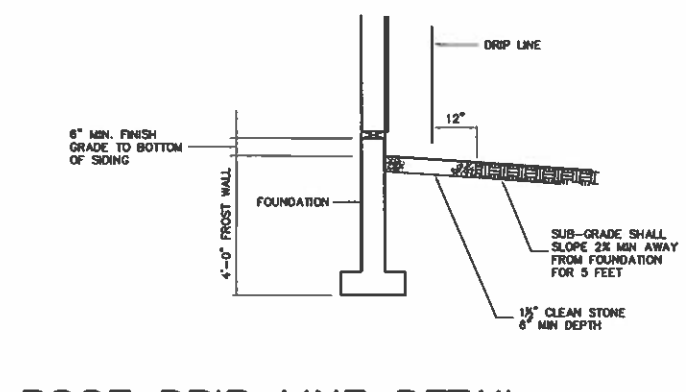
Shrub Planting

NTS



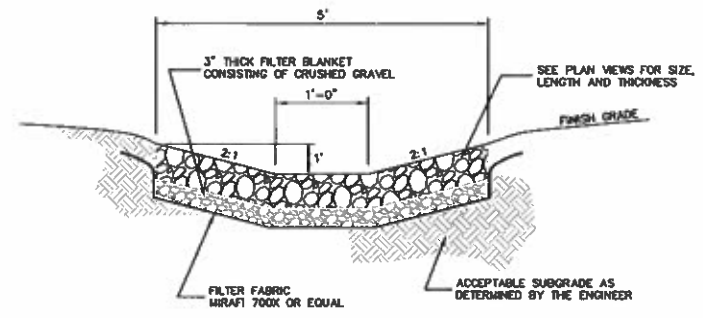
TRENCH FOR DRAIN LINES

NOT TO SCALE



ROOF DRIP LINE DETAIL (INFILTRATION)

NOT TO SCALE



RIP-RAP SWALE

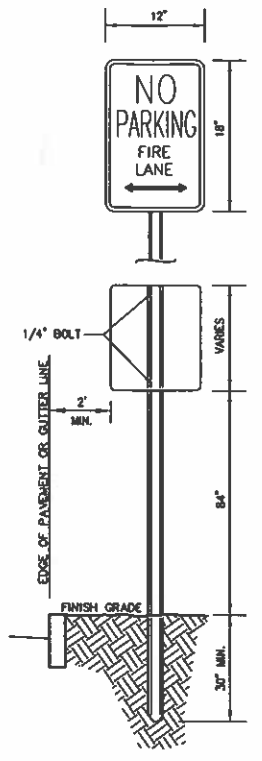
STONE SIZE	% FINER BY WEIGHT				
	D ₂₀ = 6"	D ₃₀ = 9"	D ₅₀ = 12"	D ₈₀ = 16"	D ₁₀₀ = 24"
2"	0-15%	0%	-	-	-
4"	20-35%	10-20%	0-10%	-	-
6"	35-50%	25-35%	10-25%	0-10%	-
8"	50-65%	30-50%	20-30%	10-20%	0-10%
10"	60-80%	40-60%	30-40%	15-30%	5-15%
12"	75-100%	-	-	-	-
15"	-	70-100%	45-60%	25-40%	20-30%
20"	-	-	70-100%	40-60%	30-45%
30"	-	-	-	70-100%	50-70%

GRAVEL FILTER GRADATION

SEIVE SIZE	% PASSING BY WEIGHT
3/8"	100
3"	85-100
1 1/2"	60-90
3/4"	40-70
3/8"	20-50
No. 4	10-40
No. 200	0-8

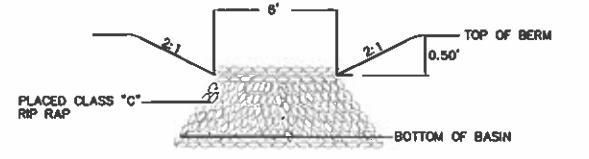
RIP-RAP SWALE

NOT TO SCALE



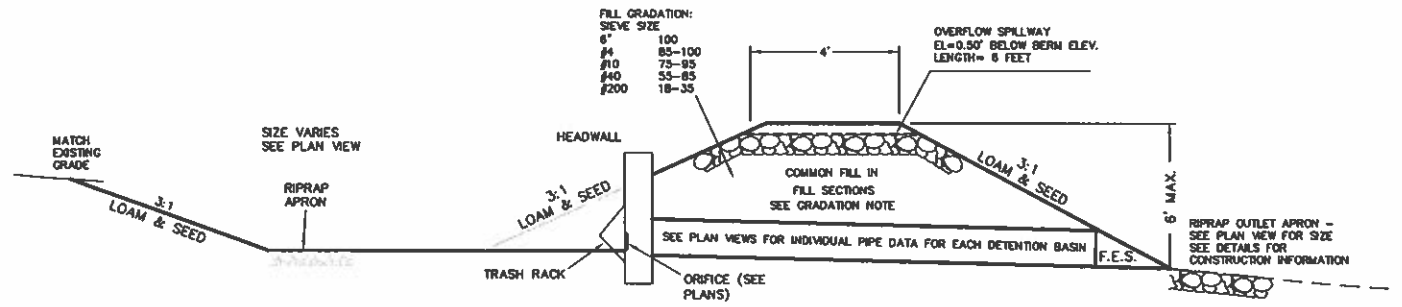
TRAFFIC SIGN POST IN GRADE

NOT TO SCALE



TYPICAL EMERGENCY SPILLWAY DETAIL

NOT TO SCALE



DETENTION BASIN CONSTRUCTION NOTES

1. THE FOUNDATION AREA SHALL BE CLEARED OF TREES, LOGS, STUMPS, ROOTS, BRUSH, BOULDERS, SOIL AND RUBBISH. SCARIFY SURFACE BEFORE PLACING FILL. THE AREA SHALL BE MOIST FOR GOOD BONDING OF THE NEW FILL. KEEP STANDING WATER FROM FORMING ON OR NEAR THE FILL AREA.
2. THE FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOIL, ROOTS, FROZEN SOIL, STONES LARGER THAN 6 INCHES AND OTHER OBJECTIONABLE MATERIAL. CRUSHED GRAVEL (3/4") SHALL BE PLACED AROUND PIPES AND CONCRETE STRUCTURES.
3. THE PLACING AND SPREADING OF FILL SHALL BE STARTED AT THE LOWEST POINT IN THE BERM AREA AND BROUGHT UP IN HORIZONTAL LAYERS (LIFTS) OF ABOUT 12" SO THAT REQUIRED COMPACTION CAN BE OBTAINED. THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS OR LAYERS OF MATERIAL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL.
4. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED COMPACTION.
5. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER AREAS OR EACH LAYER OF FILL TO INSURE REQUIRED COMPACTION. USE SPECIAL EQUIPMENT IF NECESSARY. FILL ADJACENT TO PIPES AND STRUCTURES SHALL BE COMPACTED BY HAND TAMPING OR PLATE VIBRATOR. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL CONCRETE HAS CURED STRONG ENOUGH TO SUPPORT THE LOAD.
6. FOR PROTECTION ALL EXPOSED AND DISTURBED SURFACES SHALL HAVE A COVER OF VEGETATION, PREFERABLY TOPSOIL AND SEED. FOLLOW SEEDING SPECIFICATIONS AND GENERAL NOTES IN THE EROSION CONTROL DETAILS SECTION IN THIS PLANSET.

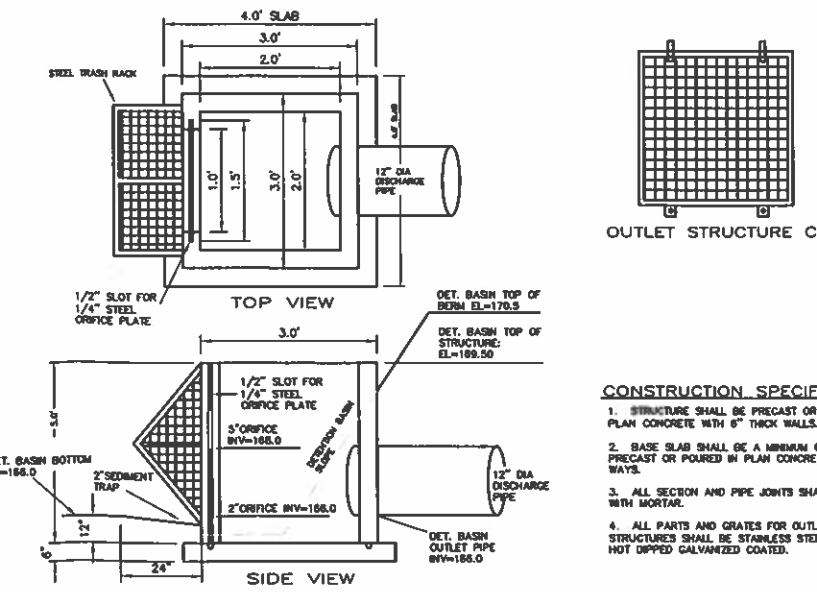
1. PONDS THAT ARE EASILY ACCESSIBLE IN POPULATED AREAS SHOULD INCORPORATE ALL POSSIBLE SAFETY PRECAUTIONS. DUE TO ONLY TEMPORARY WATER LEVELS IN THESE BASINS, FENCING IS NOT NECESSARY.

MAINTENANCE

1. MAINTENANCE IS NECESSARY IF THE BASIN IS TO CONTINUE TO FUNCTION AS DESIGNED. THE LANDOWNER MUST BE AWARE OF THE REQUIREMENTS FOR A PROPERLY OPERATIONAL BASIN AND A PLAN BE DEVELOPED FOR REGULAR SCHEDULED MAINTENANCE.
2. THE EMBANKMENT SHOULD BE INSPECTED TO DETERMINE IF RODENT BURROWS, WET AREAS OR EROSION OF THE FILL IS TAKING PLACE.
3. THE VEGETATION SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC AND DENSE WEED GROWTH. LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOIL TESTS. TREES AND SHRUBS SHOULD BE KEPT OFF THE EMBANKMENT AND EMERGENCY SPILLWAY AREAS.
4. PIPE INLETS AND SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED. IF PIPES ARE COATED, THE COATING SHOULD BE CHECKED AND REPAIRED AS NECESSARY.
5. PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE, THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET.
6. SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACHED THE PREDETERMINED DESIGN ELEVATION, THEN THE SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF.

DETENTION BASIN DETAIL

NOT TO SCALE



DETENTION BASIN OUTLET STRUCTURE

NOT TO SCALE

No.	DESCRIPTION	DATE
1.	REVISE DETENTION BASIN ELEVATIONS	02/01/2023
2.	ADD SIGN, PLANTING, AND ROOF DRIP LINE DETAILS	03/17/2023

CONSTRUCTION DETAILS
MAP 00D, LOT 0509

976 WEST HOLLIS STREET
NASHUA, NEW HAMPSHIRE

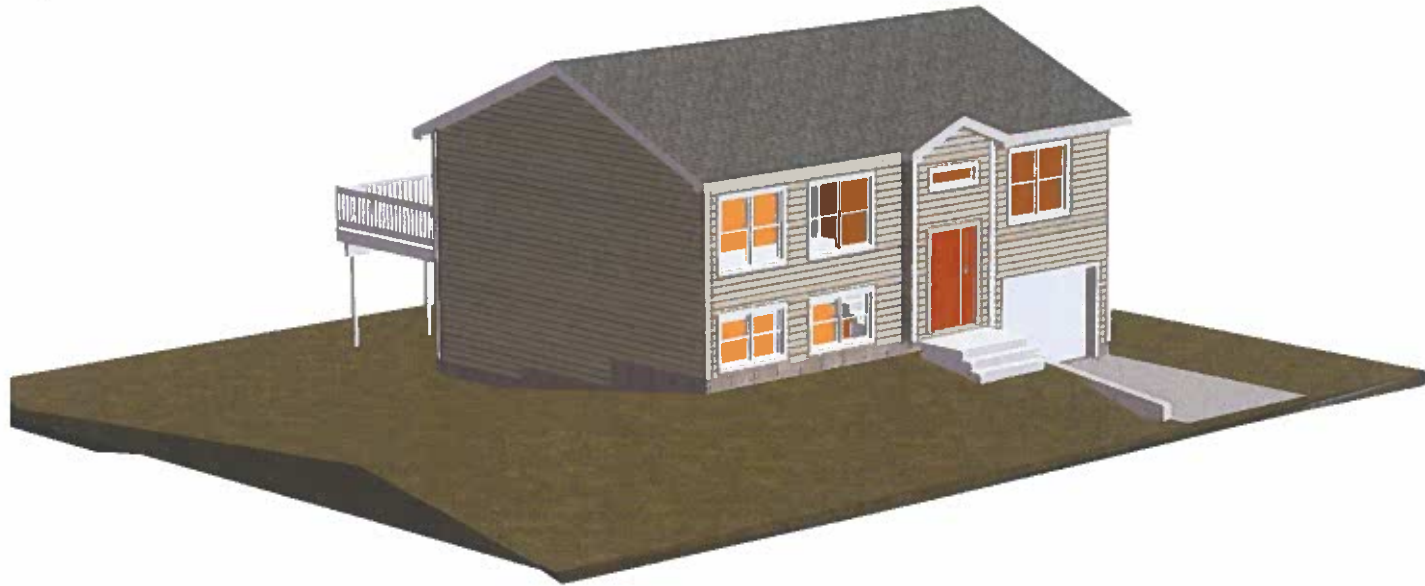
PREPARED FOR:
TUMPNEY, HURD, CLEGG, LLC
39 TRIGATE ROAD
HUDSON, NH 03051

JANUARY 26, 2023 SCALE: AS NOTED

ENGINEER:
RJB ENGINEERING, LLC
2 GLENDALE ROAD
CONCORD, NH 03301
PH. 603-219-0194

ENGINEER & SURVEYOR:
M.J. GRAINGER ENGINEERING, INC.
PROFESSIONAL ENGINEERS - SURVEYORS - PLANNERS
220 DERRY ROAD HUDSON, NH 03051 (603) 882-4359

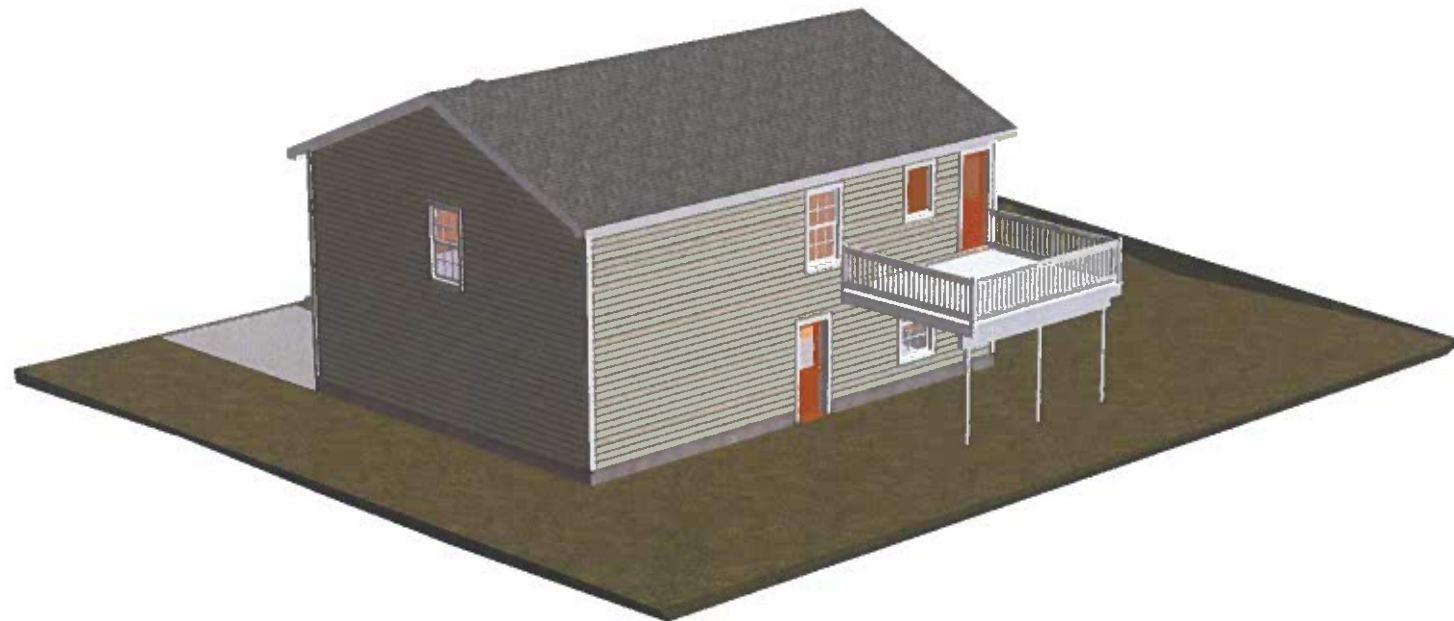
SHEET: 6 of 7



LEFT FRONT



RIGHT FRONT



LEFT REAR



RIGHT REAR